

**Commonwealth of Kentucky  
Environmental and Public Protection Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601  
(502) 573-3382**

**AIR QUALITY PERMIT  
Issued under 401 KAR 52:040**

**Permittee Name:** Hitachi Automotive Products (USA), Inc.  
**Mailing Address:** 955 Warwick Road, P.O. Box 510, Harrodsburg,  
Kentucky 40330

**Source Name:** Hitachi Automotive Products (USA), Inc.  
**Mailing Address:** 955 Warwick Road  
Harrodsburg, Kentucky 40330

**Source Location:** 955 Warwick Road

**Permit ID:** S-07-099  
**Agency Interest #:** 3147  
**Activity ID:** APE20040001  
**Review Type:** Minor Source, Operating  
**Source ID:** 21-167-00018

**Regional Office:** Frankfort Regional Office  
663 Teton Trail, Suite B  
Frankfort, KY 40601  
(502) 564-3358

**County:** Mercer

**Application**  
**Complete Date:** January 22, 2008  
**Issuance Date:** March 4, 2008  
**Revision Date:**  
**Expiration Date:** March 4, 2018



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**John S. Lyons, Director  
Division for Air Quality**

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****Emission Point 001(--)****Machining Area**

**Description:** The Machining Area is located in a separate building from the main building and receives hulls (or outer castings) for various automotive components. The Machining Area consists of seven (7) robotic assembly machining lines (batch process), with various individual operations along the line. In this area coolant is applied to parts prior to wet drilling, shaving, and sanding operations. Drilling, shaving, and sanding operations are performed with an enclosure. Any waste liquid coolant recovered is recycled back into the process. Any shavings collected with attached waste coolant are collected and recycled offsite.

Maximum Capacity: 0.64 gal/hr coolant usage

Construction Date: 1989

Control Method: Wet process with coolant/recycle coolant

**Emission Point 002(--)****Control Unit Area**

**Description:** The Control Unit Area, located on the second floor of the main building, consists of six (6) robotic assembly control unit lines, with various individual operations along each line. The lines operate at the same speed and apply the following material to automotive parts: Solvent A, Solvent T, Flux, and Protectorant. Each Control Unit Area process line has several soldering machines which use a flux. Equipment on each process line is frequently changed (added or removed) to accommodate the type of automotive part that is being produced at the time. The Control Unit Area also consists of one (1) sonic cleaning operation for cleaning parts in a dip tank and general cleaning of control unit machines by hand.

Construction Date: January 1989

Control Device: None

**002(01) Control Unit Area Solvent A Usage**

Maximum Capacity: 0.58 gal/hr

**002(02) Control Unit Area Solvent T Usage**

Maximum Capacity: 0.16 gal/hr

**002(03) Control Unit Area Flux Usage**

Maximum Capacity: 0.54 gal/hr

**002(04) Control Unit Area Protectorant Usage**

Maximum Capacity: 2.55 lbs/hr

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****APPLICABLE REGULATIONS:**

401 KAR 59:010, *New Process Operations*, applies to an affected facility constructed on or after July 2, 1975, which is associated with a control device or stack and not subject to another emission standard with respect to particulates. This rule applies to EP001.

**1. Operating Limitations:**

The wet process associated with EP001 shall be operated at all times of equipment operation and in a manner which ensures compliance with the emission limitations in Section B.2 below.

**2. Emission Limitations:**

- a. Pursuant to 401 KAR 59:010, Section 3(2) and Appendix A, emissions of particulate matter from the control device or stack for EP001 shall not exceed the lbs/hr limit as determined by the following formula:

For process rates up to 60,000 lbs/hr:  $E = 3.59 P^{0.62}$

For the equation  $E$  = rate of emission in lb/hr and  $P$  = process weight rate in tons/hour

For a process rate weight of 1,000 lbs/hr or less the particulate matter emission limit is 2.34 lbs/hr.

- b. Pursuant to 401 KAR 59:010, Section 3(1), visible emissions from the control device or stack for EP001 shall not equal or exceed 20% opacity.

***Compliance Demonstration Method:***

- a. The permittee is considered to be in compliance with paragraph 2.a. when complying with **1.a. Operating Limitations**, but if deemed necessary the Division shall require testing in accordance with 40 CFR 60, Appendix A, Method 5.
- b. The permittee is considered to be in compliance with the opacity requirements of paragraph 2.b. based on the process description and the proper operation of equipment, but if deemed necessary the Division shall require testing in accordance with 40 CFR 60, Appendix A, Method 9.

**3. Testing Requirements:**

None

**4. Monitoring Requirements:**

The permittee shall monitor and maintain records of the monthly amount (gallons) of machining area coolant used and coolant recovered/recycled; and control unit area Solvent A, Solvent T, Flux, and Protectorant usage.

**5. Recordkeeping Requirements:**

The permittee shall maintain records of the following information. These records shall be sufficient such that the permittee is capable of demonstrating compliance with minor source status if requested to do so by the Cabinet.

- a. Records in accordance with **4. Monitoring Requirements**.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- b. All purchase orders and invoices for materials containing VOC's and HAP's shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.
- c. MSDS, Manufacture's Product Data Sheets, or the results of EPA reference test methods from which the VOC and HAP content of each material can be obtained.
- d. The permittee shall maintain records in accordance with **Section C**.

**6. Reporting Requirements:**

See **Section C, General Conditions**.

## SECTION C - GENERAL CONDITIONS

### 1. Administrative Requirements

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
- b. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]
- c. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-11 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- d. Pursuant to materials incorporated by reference by 401 KAR 52:040, this permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Section 1a-4, 5, of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- e. This permit does not convey property rights or exclusive privileges [Section 1a-8 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- f. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].
- g. All previously issued permits to this source at this location are hereby null and void.

**SECTION C - GENERAL CONDITIONS (CONTINUED)****2. Recordkeeping Requirements**

- a. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f) and Section 1b-IV-2 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- b. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

**3. Reporting Requirements**

- a. (1) In accordance with the provisions of 401 KAR 50:055, Section 1, the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
- (2) The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition a.(1) above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Section 1b-V-3 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- b. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the permit [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

**SECTION C - GENERAL CONDITIONS (CONTINUED)**

- c. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation. The summary reports are due January 30th and July 30th of each year. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

**4. Inspections**

In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency:

- a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation.
- b. To access and copy any records required by the permit.
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
- d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

**5. Emergencies/Enforcement Provisions**

- a. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].
- b. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - (1) An emergency occurred and the permittee can identify the cause of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - (4) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

**SECTION C - GENERAL CONDITIONS (CONTINUED)**

- c. Emergency provisions listed in General Condition 5.b are in addition to any emergency or upset provision contained in an applicable requirement [401 KAR 52:040, Section 22(1)].
- d. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040, Section 22(2)].

**6. Compliance**

- a. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
  - (1) Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.
  - (2) All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and nonroutine maintenance performed on each control device. Daily observations are required during daylight hours of all operations, control equipment and any visible emissions to determine whether conditions appear to be either normal or abnormal. If the operations, controls and/or emissions appear to be abnormal, the permittee must then comply with the requirements of Section C – General Conditions, 3.a.(2), of this permit.
  - (3) A log of the monthly raw material consumption and monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division [401 KAR 50:055, Section 2].
- b. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
  - (1) Identification of the term or condition;
  - (2) Compliance status of each term or condition of the permit;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The method used for determining the compliance status for the source, currently and over the reporting period, and
  - (5) For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

## SECTION C - GENERAL CONDITIONS (CONTINUED)

- (6) The certification shall be postmarked by January 30th of each year. Annual compliance certifications shall be mailed to the following addresses:

Division for Air Quality  
Frankfort Regional Office  
663 Teton Trail, Suite B  
Frankfort, KY 40601

Division for Air Quality  
Central Files  
803 Schenkel Lane  
Frankfort, KY 40601-1403

- c. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
- (1) Applicable requirements that are included and specifically identified in this permit; or
  - (2) Non-applicable requirements expressly identified in this permit [401 KAR 52:040, Section 11].

**SECTION D - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

	<u>Description</u>	<u>Generally Applicable Regulation</u>
1.	007(-- ) Eighteen (18) injection molding machines.	None
2.	008(-- ) ISC Valve Area.	None
3.	010(-- ) Throttle Body/Throttle Chamber Area.	None
4.	006(01) and 006(02) Two (2) natural gas-fired boilers for space heating, each with heat input rating of 3.25 MMBtu/hr and constructed in 1989.	401 KAR 59:015
5.	006(03) A total of ninety (90) boilers, each with a maximum heat input capacity of less than 1.0 MMBtu/hr and a combined capacity of 17.54 MMBtu/hr. Constructed in 1989 or later.	None
6.	009(01) Air Flow Meter Area with a maximum solvent usage of 0.07 gal/hr. Constructed in 1989.	None